

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in this application.

Listing of Claims:

1. (Currently Amended) A coating layer for an electrical device ~~A polymer composition~~, comprising:
 - (a) a copolymer comprising polymerized ethylene monomer and C₃ to C₁₂ alpha-olefin comonomer, the copolymer having a CDBI of at least 70%, a melt index I_{2.16} of from 0.1 to 15 g/10 min, a density of from 0.910 to 0.940 g/cm³, a melt index ratio I_{21.6}/I_{2.16} of from 30 to 80, and an Mw/Mn ratio of from 2.5 to 5.5;
 - (b) a silane grafting composition comprising a silane compound and a free radical initiator, the silane compound comprising an unsaturated group and a hydrolyzable group; and
 - (c) a silanol condensation catalyst;
or reaction products thereof.
2. (Currently Amended) The ~~polymer composition~~ coating layer of claim 1, wherein the alpha-olefin comonomer comprises 1-butene, 1-hexene or 1-octene.
3. (Currently Amended) The ~~polymer composition~~ coating layer of claim 1, wherein the CDBI of the ethylene copolymer is at least 75%.
4. (Currently Amended) The ~~polymer composition~~ coating layer of claim 1, wherein the CDBI of the ethylene copolymer is at least 80%.
5. (Currently Amended) The ~~polymer composition~~ coating layer of claim 1, wherein the melt index of the ethylene copolymer is from 0.3 to 10 g/10 min.
6. (Currently Amended) The ~~polymer composition~~ coating layer of claim 1, wherein the density of the ethylene copolymer is from 0.916 to 0.935 g/cm³.

7. (Currently Amended) The ~~polymer composition~~ coating layer of claim 1, wherein the melt index ratio $I_{21.6}/I_{2.16}$ of the ethylene copolymer is from 35 to 80.
8. (Currently Amended) The ~~polymer composition~~ coating layer of claim 1, wherein the Mw/Mn ratio is from 2.8 to 4.5.
9. (Currently Amended) The ~~polymer composition~~ coating layer of claim 1, wherein the unsaturated group of the silane compound comprises a vinyl, allyl, isopropenyl, butenyl, cyclohexenyl, or γ -(meth)acryloxy allyl group.
10. (Currently Amended) The ~~polymer composition~~ coating layer of claim 1, wherein the hydrolyzable group of the silane compound comprises a hydrocarbyloxy, hydrocarbonyloxy or hydrocarbylamino group.
11. (Currently Amended) The ~~polymer composition~~ coating layer of claim 1, wherein the silane compound is a vinyl trialkoxysilane and the free radical initiator is an organic peroxide.
12. Cancelled.
13. (Currently Amended) The ~~polymer composition~~ coating layer of claim 1, wherein the ~~composition layer~~ layer has a hot set value after 2 hours curing in 80°C water of 70% or less.
14. (Currently Amended) The ~~polymer composition~~ coating layer of claim 1, wherein the ~~composition layer~~ layer has a hot set value after 30 days of 50% or less.
15. (Withdrawn) A silane crosslinked polymer composition, comprising the reaction product of:
 - (a) a copolymer comprising polymerized ethylene monomer and C₃ to C₁₂ alpha-olefin comonomer, the copolymer having a CDBI of at least 70%, a melt index $I_{2.16}$ of from 0.1 to 15 g/10 min, a density of from 0.910 to 0.940 g/cm³, a melt index ratio $I_{21.6}/I_{2.16}$ of from 30 to 80, and an Mw/Mn ratio of from 2.5 to 5.5;

- (b) a silane grafting composition comprising a silane compound and a free radical initiator, the silane compound comprising an unsaturated group and a hydrolyzable group; and
 - (c) a silanol condensation catalyst.
- 16. (Withdrawn) The polymer composition of claim 15, wherein the alpha-olefin comonomer comprises 1-butene, 1-hexene or 1-octene.
 - 17. (Withdrawn) The polymer composition of claim 15, wherein the CDBI of the ethylene copolymer is at least 75%.
 - 18. (Withdrawn) The polymer composition of claim 15, wherein the CDBI of the ethylene copolymer is at least 80%.
 - 19. (Withdrawn) The polymer composition of claim 15, wherein the melt index of the ethylene copolymer is from 0.3 to 10 g/10 min.
 - 20. (Withdrawn) The polymer composition of claim 15, wherein the density of the ethylene copolymer is from 0.916 to 0.935 g/cm³.
 - 21. (Withdrawn) The polymer composition of claim 15, wherein the melt index ratio $I_{21.6}/I_{2.16}$ of the ethylene copolymer is from 35 to 80.
 - 22. (Withdrawn) The polymer composition of claim 15, wherein the Mw/Mn ratio is from 2.8 to 4.5.
 - 23. (Withdrawn) The polymer composition of claim 15, wherein the unsaturated group of the silane compound comprises a vinyl, allyl, isopropenyl, butenyl, cyclohexenyl, or γ -(meth)acryloxy allyl group.
 - 24. (Withdrawn) The polymer composition of claim 15, wherein the hydrolyzable group of the silane compound comprises a hydrocarbyloxy, hydrocarbonyloxy or hydrocarbylamino group.

25. (Withdrawn) The polymer composition of claim 15, wherein the silane compound is a vinyl trialkoxysilane and the free radical initiator is an organic peroxide.
26. (Withdrawn) An electrical device comprising the polymer composition of any of claims 1 to 25.
27. (Withdrawn) An electrical device comprising:
 - (a) an electrical conductor; and
 - (b) a layer surrounding at least a portion of the electrical conductor, the layer comprising the reaction product of:
 - (i) a copolymer comprising polymerized ethylene monomer and C₃ to C₁₂ alpha-olefin comonomer, the copolymer having a CDBI of at least 70%, a melt index I_{2.16} of from 0.1 to 15 g/10 min, a density of from 0.910 to 0.940 g/cm³, a melt index ratio I_{21.6}/I_{2.16} of from 30 to 80, and an Mw/Mn ratio of from 2.5 to 5.5; and
 - (ii) a silane grafting composition comprising a silane compound and a free radical initiator, the silane compound comprising an unsaturated group and a hydrolyzable group; and
 - (iii) a silanol condensation catalyst.
28. (Withdrawn) The electrical device of claim 27, wherein the layer surrounding at least a portion of the conductor is an insulating layer.
29. (Withdrawn) The electrical device of claim 27, wherein the layer surrounding at least a portion of the conductor is a semiconducting layer.
30. (Withdrawn) The electrical device of claim 27, wherein the layer surrounding at least a portion of the conductor is an outer jacket layer.
31. (Withdrawn) The electrical device of any of claims 27-30, wherein the device is a power cable adapted to transport electricity at a voltage potential of less than or equal to 66 kV.

32. (Withdrawn) The electrical device of any of claims 27-30, wherein the device is a power cable adapted to transport electricity at a voltage potential of less than or equal to 35 kV.
33. (Withdrawn) The electrical device of any of claims 27-30, wherein the device is a power cable adapted to transport electricity at a voltage potential of less than or equal to 6 kV.
34. (Withdrawn) The electrical device of any of claims 27-30, wherein the device is a power cable adapted to transport electricity at a voltage potential of less than or equal to 1 kV.
35. (Withdrawn) The electrical device of any of claims 27-30, wherein the device is a telecommunications cable.
36. (Withdrawn) The electrical device of any of claims 27-30, wherein the device is a combined power/telecommunications cable.
37. (New) An electrical device comprising:
 - (a) an electrical conductor; and
 - (b) at least one layer surrounding at least a portion of the electrical conductor, the at least one layer comprising:
 - (a) a copolymer comprising polymerized ethylene monomer and C₃ to C₁₂ alpha-olefin comonomer, the copolymer having a CDBI of at least 70%, a melt index I_{2.16} of from 0.1 to 15 g/10 min, a density of from 0.910 to 0.940 g/cm³, a melt index ratio I_{21.6}/I_{2.16} of from 30 to 80, and an Mw/Mn ratio of from 2.5 to 5.5;
 - (b) a silane grafting composition comprising a silane compound and a free radical initiator, the silane compound comprising an unsaturated group and a hydrolyzable group; and
 - (c) a silanol condensation catalyst;
or reaction products thereof.
38. (New) The electrical device of claim 37, wherein the alpha-olefin comonomer comprises 1-butene, 1-hexene or 1-octene.

39. (New) The electrical device of claim 37, wherein the CDBI of the ethylene copolymer is at least 75%.
40. (New) The electrical device of claim 37, wherein the CDBI of the ethylene copolymer is at least 80%.
41. (New) The electrical device of claim 37, wherein the melt index of the ethylene copolymer is from 0.3 to 10 g/10 min.
42. (New) The electrical device of claim 37, wherein the density of the ethylene copolymer is from 0.916 to 0.935 g/cm³.
43. (New) The electrical device of claim 37, wherein the melt index ratio $I_{21.6}/I_{2.16}$ of the ethylene copolymer is from 35 to 80.
44. (New) The electrical device of claim 37, wherein the Mw/Mn ratio is from 2.8 to 4.5.
45. (New) The electrical device of claim 37, wherein the unsaturated group of the silane compound comprises a vinyl, allyl, isopropenyl, butenyl, cyclohexenyl, or γ -(meth)acryloxy allyl group.
46. (New) The electrical device of claim 37, wherein the hydrolyzable group of the silane compound comprises a hydrocarbyloxy, hydrocarbonyloxy or hydrocarbylamino group.
47. (New) The electrical device of claim 37, wherein the silane compound is a vinyl trialkoxysilane and the free radical initiator is an organic peroxide.
48. (New) The electrical device of claim 37, wherein the at least one layer has a hot set value after 2 hours curing in 80°C water of 70% or less.
49. (New) The electrical device of claim 37, wherein the at least one layer has a hot set value after 30 days of 50% or less.

50. (New) The electrical device of claim 37, wherein the at least one layer is an insulating layer.
51. (New) The electrical device of claim 37, wherein the at least one layer is a semiconducting layer.
52. (New) The electrical device of claim 37, wherein the at least one layer is an outer jacket layer.
53. (New) The electrical device of claim 37, wherein the device is a power cable adapted to transport electricity at a voltage potential of less than or equal to 66 kV.
54. (New) The electrical device of claim 37, wherein the device is a power cable adapted to transport electricity at a voltage potential of less than or equal to 35 kV.
55. (New) The electrical device of claim 37, wherein the device is a power cable adapted to transport electricity at a voltage potential of less than or equal to 6 kV.
56. (New) The electrical device of claim 37, wherein the device is a power cable adapted to transport electricity at a voltage potential of less than or equal to 1 kV.
57. (New) The electrical device of claim 37, wherein the device is a telecommunications cable.
58. (New) The electrical device of claim 37, wherein the device is a combined power/telecommunications cable.
59. (New) A method for making a coating for an electrical device, comprising:
polymerizing ethylene monomer and C₃ to C₁₂ alpha-olefin comonomer to produce a copolymer, the copolymer having a CDBI of at least 70%, a melt index I_{2.16} of from 0.1 to 15 g/10 min, a density of from 0.910 to 0.940 g/cm³, a melt index ratio I_{21.6}/I_{2.16} of from 30 to 80, and an Mw/Mn ratio of from 2.5 to 5.5;

mixing the copolymer with a silane grafting composition comprising a silane compound and a free radical initiator to provide a silane grafted copolymer or reaction products thereof, the silane compound comprising an unsaturated group and a hydrolyzable group;

adding a silanol condensation catalyst to the silane grafter copolymer; and then extruding the copolymer to provide the coating.

60. (New) The coating of claim 59, wherein the alpha-olefin comonomer comprises 1-butene, 1-hexene or 1-octene.
61. (New) The coating of claim 59, wherein the CDBI of the ethylene copolymer is at least 75%.
62. (New) The coating of claim 59, wherein the CDBI of the ethylene copolymer is at least 80%.
63. (New) The coating of claim 59, wherein the melt index of the ethylene copolymer is from 0.3 to 10 g/10 min.
64. (New) The coating of claim 59, wherein the density of the ethylene copolymer is from 0.916 to 0.935 g/cm³.
65. (New) The coating of claim 59, wherein the melt index ratio $I_{21.6}/I_{2.16}$ of the ethylene copolymer is from 35 to 80.
66. (New) The coating of claim 59, wherein the Mw/Mn ratio is from 2.8 to 4.5.
67. (New) The coating of claim 59, wherein the unsaturated group of the silane compound comprises a vinyl, allyl, isopropenyl, butenyl, cyclohexenyl, or γ -(meth)acryloxy allyl group.
68. (New) The coating of claim 59, wherein the hydrolyzable group of the silane compound comprises a hydrocarbyloxy, hydrocarbonyloxy or hydrocarbylamino group.

69. (New) The coating of claim 59, wherein the silane compound is a vinyl trialkoxysilane and the free radical initiator is an organic peroxide.
70. (New) The coating of claim 59, wherein the coating has a hot set value after 2 hours curing in 80°C water of 70% or less.
71. (New) The coating of claim 59, wherein the coating has a hot set value after 30 days of 50% or less.